

Golf/Bora

Current Flow Diagram

No. 66 / 1**Edition 01.2006**

1.6 l/77 kW, 4MV, engine code AZD

from September 2000

Notes:

For information concerning

- ◆ Position of relays and fuses
- ◆ Multi-pin connections
- ◆ Control units and relays
- ◆ Earth connections

→ List of Fitting Locations!

For information concerning

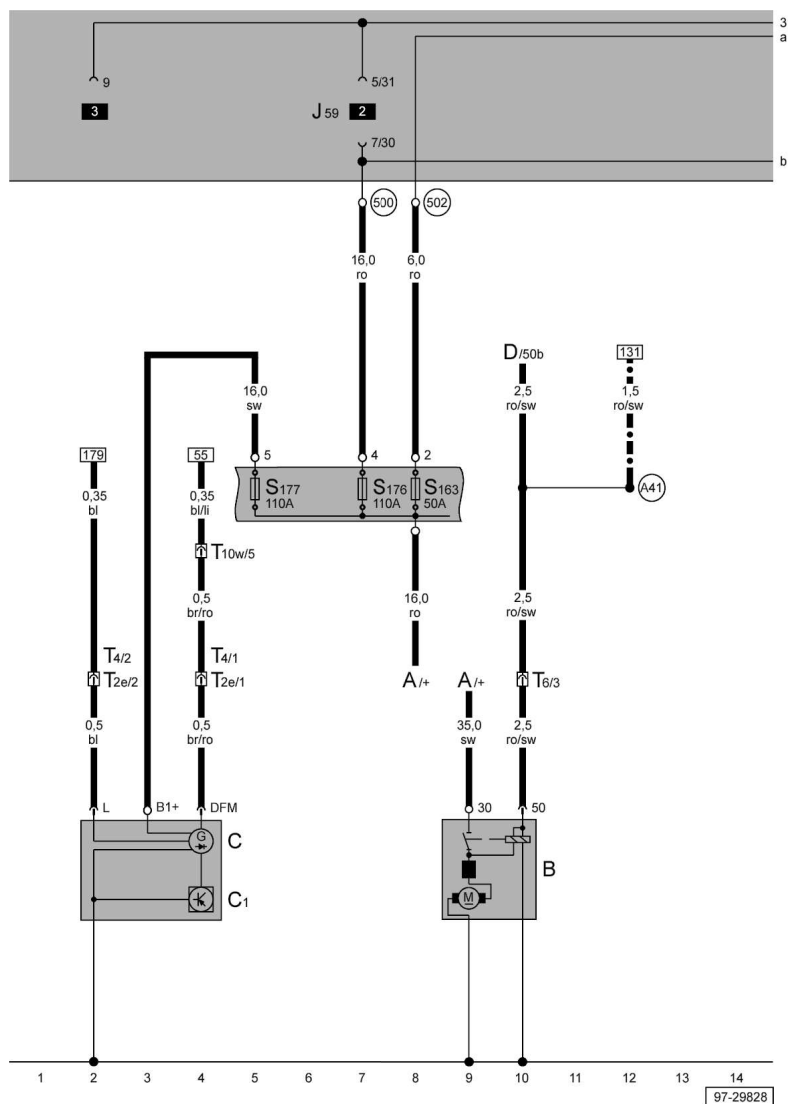
- ◆ Fault Finding Programs

→ guided fault finding

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Current Flow Diagram

No. 66 / 2



Alternator, starter

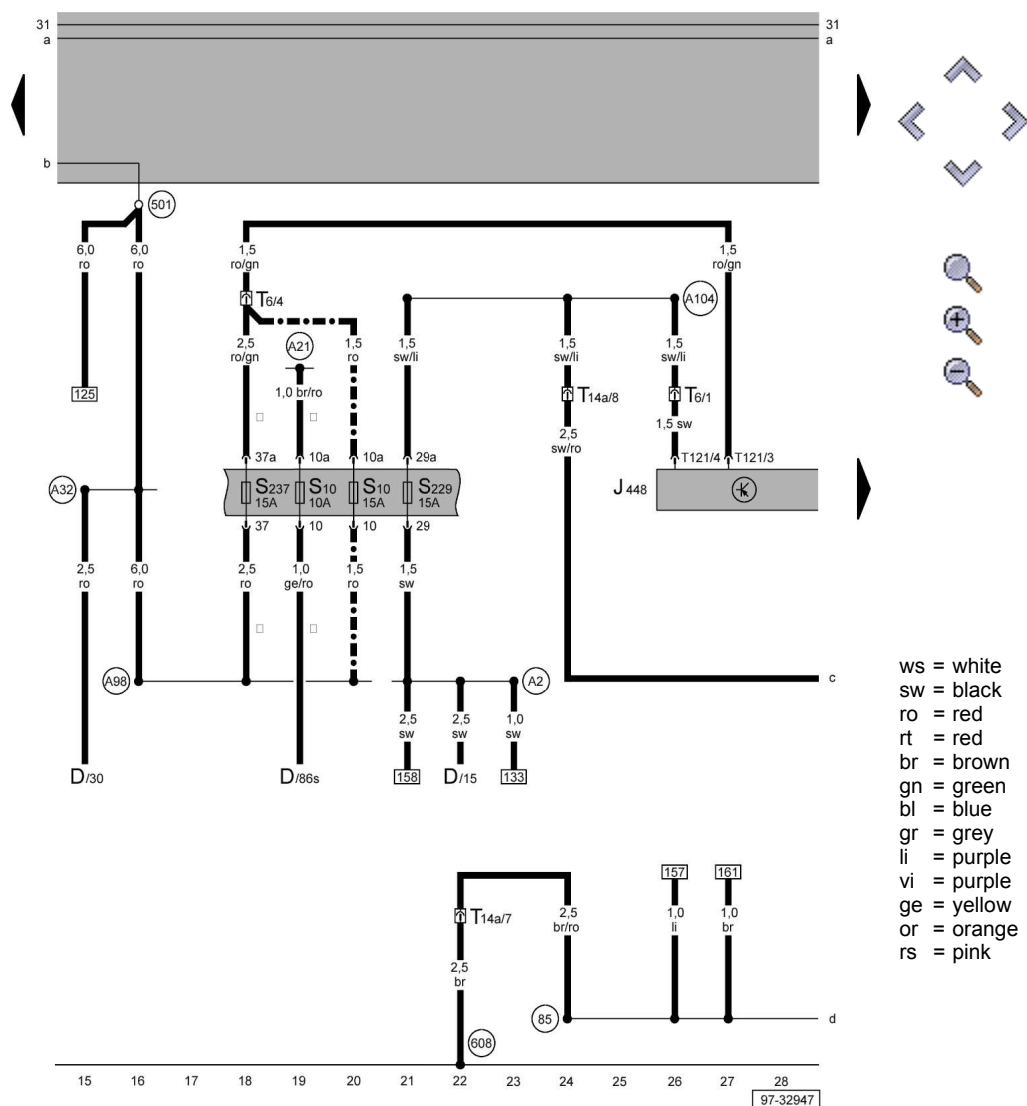
- A - Battery
- B - Starter
- C - Alternator
- C1 - Voltage regulator
- D - Ignition/starter switch
- J59 - X-contact relief relay
- S163 - Fuse 2 (30), in fuse holder on battery
- S176 - Fuse 4 (30), in fuse holder on battery
- S177 - Fuse 5 (30), in fuse holder on battery
- T2e - 2-pin connector, near starter (in models without air conditioning system)
- T4 - 4-pin connector, near starter (in models with air conditioning system)
- T6 - 6-pin connector, brown, in connector protective housing, on left in plenum chamber
- T10w - 10-pin connector, white, in connector protective housing, on left in plenum chamber
- 500 - Screw connection 1 (30), on relay plate
- 502 - Screw connection (30a), on relay plate
- A41 - Positive connection (50), in dash panel wiring harness (up to April 2001)
- - up to April 2001

ws = white
 sw = black
 ro = red
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 bl = blue
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Current Flow Diagram

No. 66 / 3



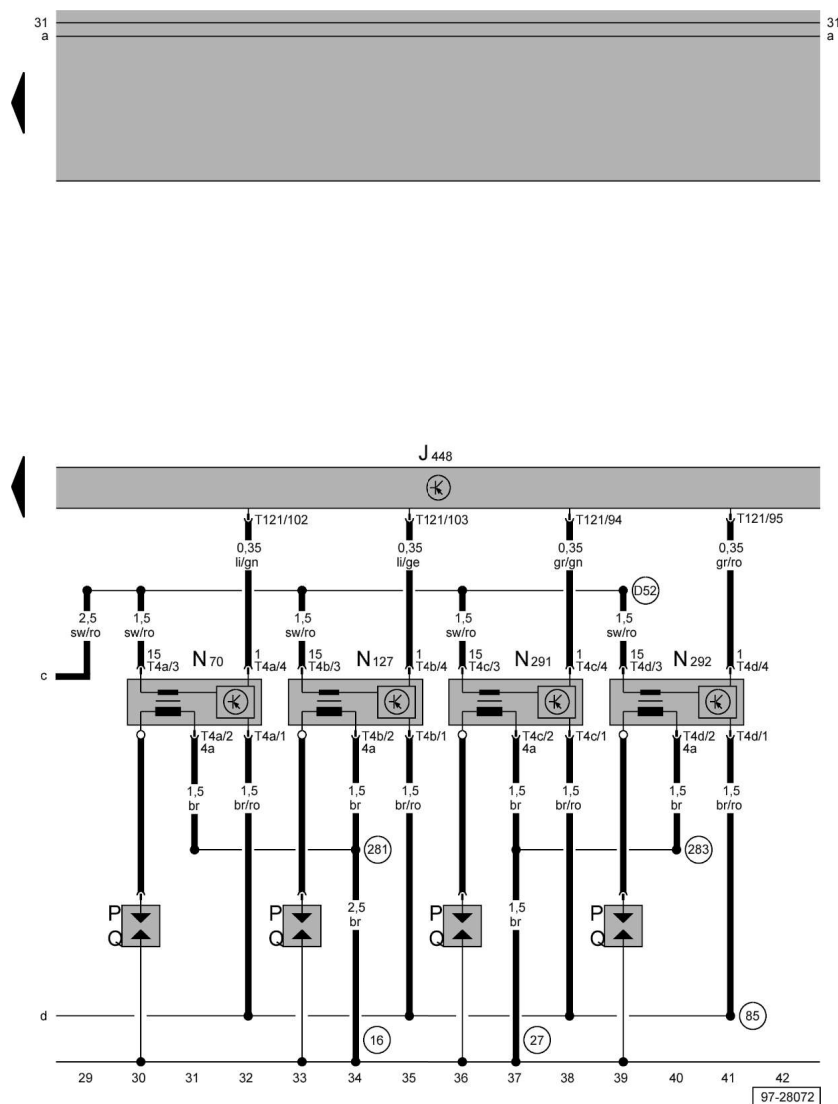
4MV injection system control unit

- D - Ignition/starter switch
- J448 - 4MV injection system control unit, in centre plenum chamber
- S10 - Fuse 10 in fuse holder
- S229 - Fuse 29 in fuse holder
- S237 - Fuse 37 in fuse holder
- T6 - 6-pin connector, brown, in connector protective housing, on left in plenum chamber
- T14a - 14-pin connector, near battery
- T121 - 121-pin connector
- 85 - Earth connection -1-, in engine compartment wiring harness
- 501 - Screw connection 2 (30), on relay plate
- 608 - Earth point, in centre of plenum chamber
- A2 - Positive connection (15), in dash panel wiring harness
- A21 - Connection (86s), in dash panel wiring harness
- A32 - Positive connection (30), in dash panel wiring harness
- A98 - Positive connection 4 (30), in dash panel wiring harness
- A104 - Positive connection 2 (15), in dash panel wiring harness
- * - from November 2001
- - up to October 2001

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Current Flow Diagram

No. 66 / 4



4MV injection system control unit, ignition system

- J448 - 4MV injection system control unit, in centre plenum chamber
- N70 - Ignition coil 1 with output stage
- N127 - Ignition coil 2 with output stage
- N291 - Ignition coil 3 with output stage
- N292 - Ignition coil 4 with output stage
- P - Spark plug connector
- Q - Spark plugs
- T4a - 4-pin connector
- T4b - 4-pin connector
- T4c - 4-pin connector
- T4d - 4-pin connector
- T121 - 121-pin connector
- 16 - Earth point 1, on cylinder head
- 27 - Earth point 2, on cylinder head
- 85 - Earth connection -1-, in engine compartment wiring harness
- 281 - Earth connection 1, in engine wiring harness
- 283 - Earth connection 2, in engine wiring harness
- D52 - Positive connection (15a), in engine compartment wiring harness

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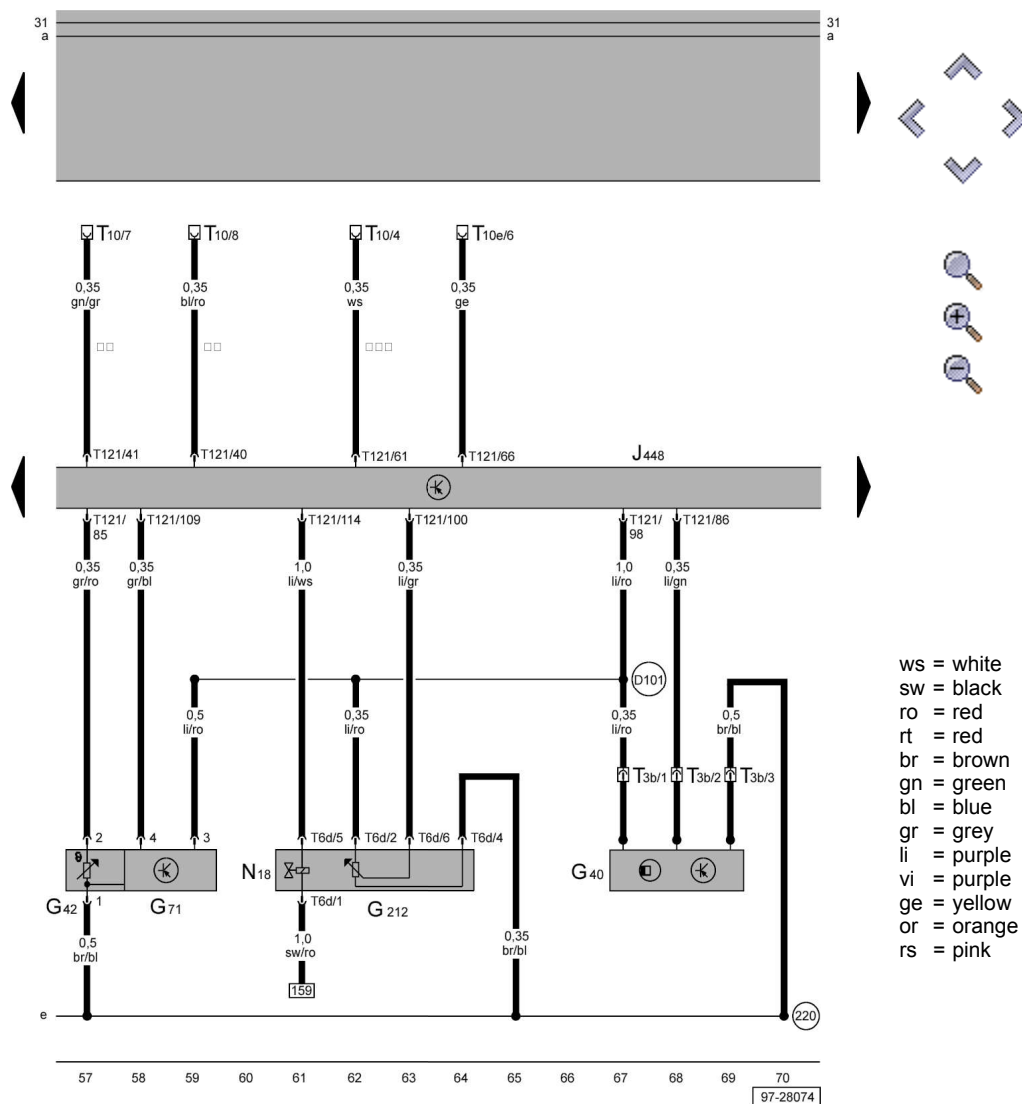
Current Flow Diagram

No. 66 / 5

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Current Flow Diagram

No. 66 / 6



4MV injection system control unit, intake air temperature sender, intake manifold pressure sender, exhaust gas recirculation potentiometer, exhaust gas recirculation valve, Hall sender

- G40 - Hall sender
- G42 - Intake air temperature sender
- G71 - Intake manifold pressure sender
- G212 - Exhaust gas recirculation potentiometer
- J448 - 4MV injection system control unit, in centre plenum chamber
- N18 - Exhaust gas recirculation valve
- T3b - 3-pin connector, on cylinder head
- T6d - 6-pin connector
- T10 - 10-pin connector, orange, in connector protective housing, on left in plenum chamber
- T10e - 10-pin connector, black, in connector protective housing, on left in plenum chamber
- T121 - 121-pin connector
- 220 - Earth connection (sender earth), in engine wiring harness
- D101 - Connection 1, in engine compartment wiring harness

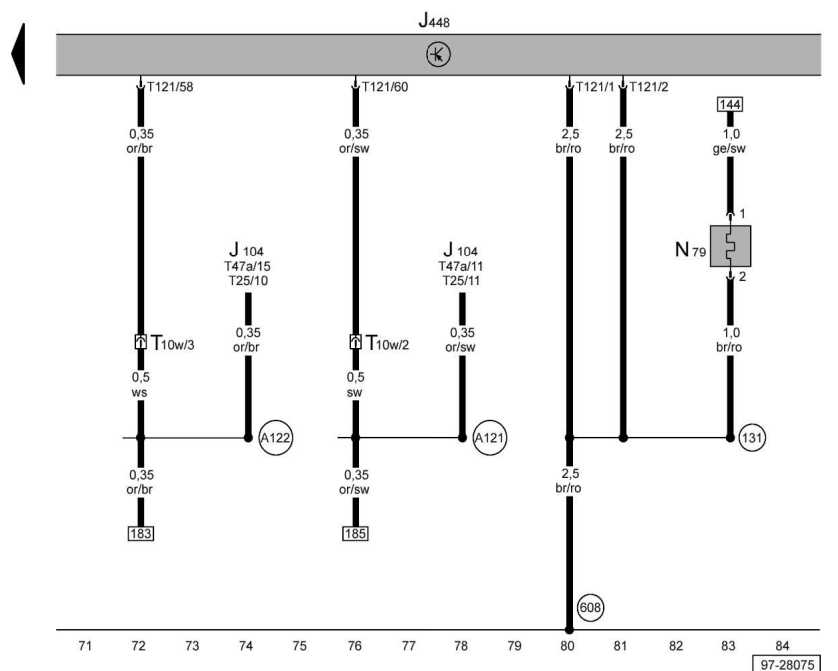
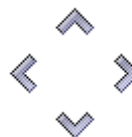
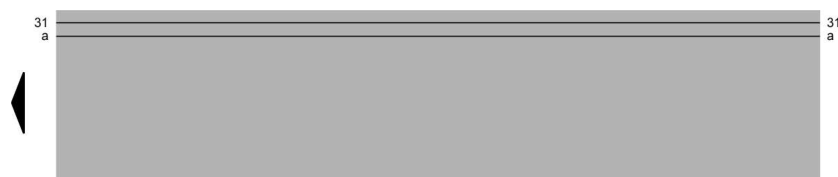
- ** - connection air conditioning system
- *** - radiator fan control unit connection

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Current Flow Diagram

No. 66 / 7



ws = white
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 vi = purple
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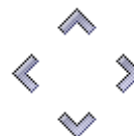
4MV injection system control unit, heater element for crankcase breather

- J104 - ABS/ABS control unit with EDL
- J448 - 4MV injection system control unit, in centre plenum chamber
- N79 - Heater element for crankcase breather
- T10w - 10-pin connector, white, in connector protective housing, on left in plenum chamber
- T25 - 25-pin connector, on ABS/ABS control unit with EDL
- T47a - 47-pin connector, on ABS control unit with EDL/ ASR/ ESP
- T121 - 121-pin connector
- 131 - Earth connection -2-, in engine compartment wiring harness
- 608 - Earth point, in centre of plenum chamber
- A121 - Connection (high bus), in dash panel wiring harness
- A122 - Connection (low bus), in dash panel wiring harness

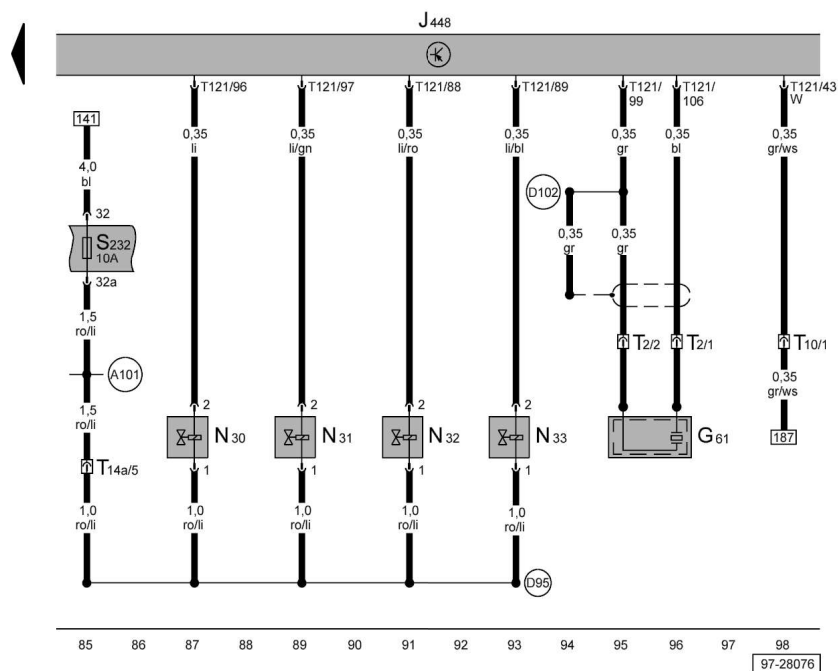
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Current Flow Diagram

No. 66 / 8

**4MV injection system control unit, injectors, knock sensor**

- G61 - Knock sensor 1
- J448 - 4MV injection system control unit, in centre plenum chamber
- N30 - Injector, cylinder 1
- N31 - Injector, cylinder 2
- N32 - Injector, cylinder 3
- N33 - Injector, cylinder 4
- S232 - Fuse 32 in fuse holder
- T2 - 2-pin connector, on left of cylinder head
- T10 - 10-pin connector, orange, in connector protective housing, on left in plenum chamber
- T14a - 14-pin connector, near battery
- T121 - 121-pin connector
- A101 - Connection 3 (87), in dash panel wiring harness
- D95 - Connection (injectors), in engine compartment wiring harness
- D102 - Connection 2, in engine compartment wiring harness

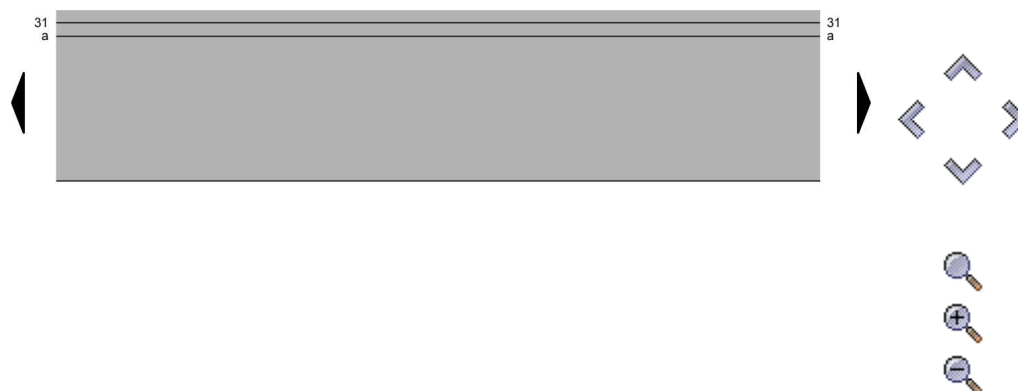


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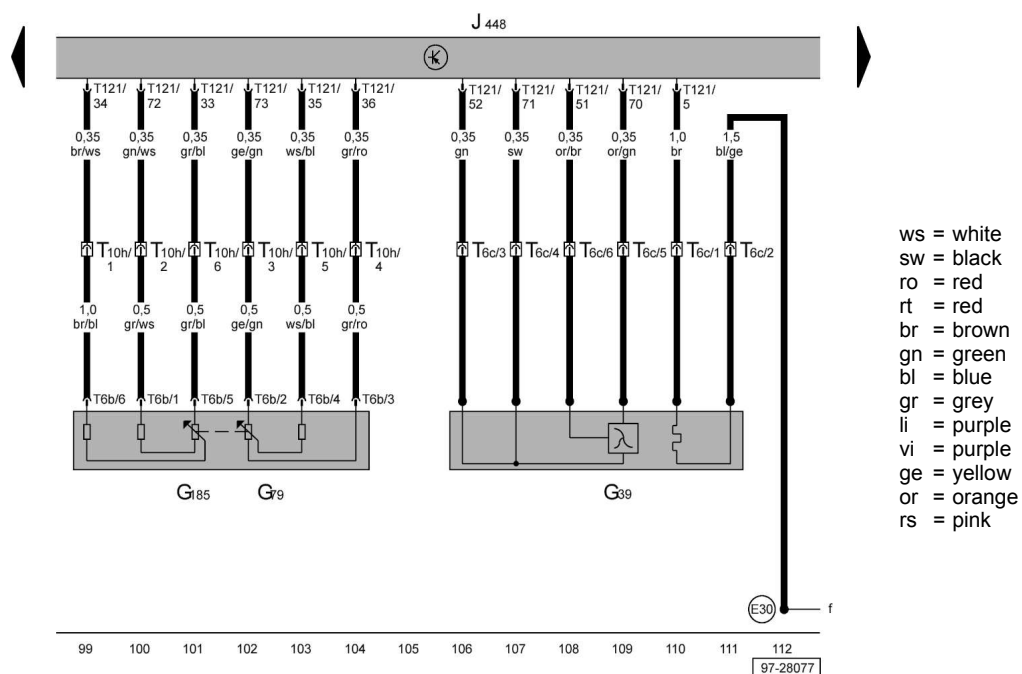
Current Flow Diagram

No. 66 / 9



4MV injection system control unit, accelerator position sender, lambda probe upstream of catalytic converter

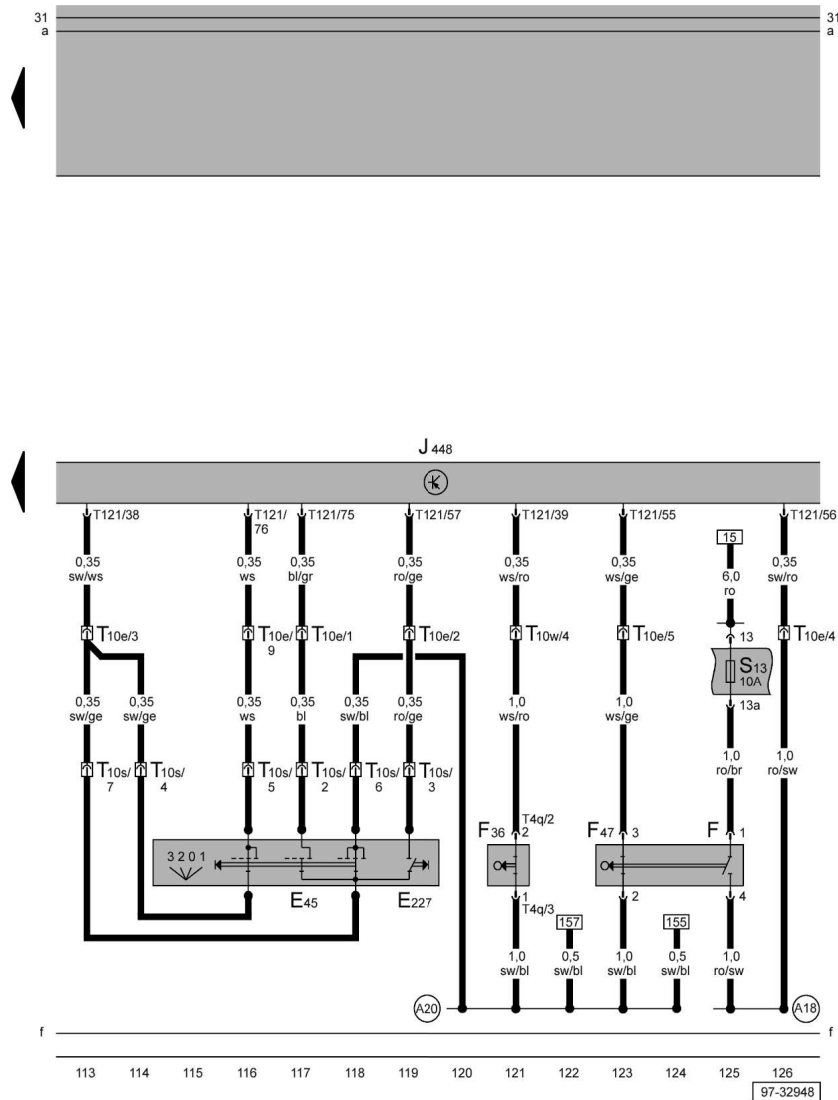
- G39 - Lambda probe
- G79 - Accelerator position sender
- G185 - Accelerator position sender -2-
- J448 - 4MV injection system control unit, in centre plenum chamber
- T6b - 6-pin connector
- T6c - 6-pin connector, near catalytic converter
- T10h - 10-pin connector, blue, in connector protective housing, on left in plenum chamber
- T121 - 121-pin connector
- E30 - Connection (87a), in engine wiring harness



Golf/Bora

Current Flow Diagram

No. 66 / 10



ws = white
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 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = purple
 vi = purple
 ge = yellow
 or = orange
 rs = pink

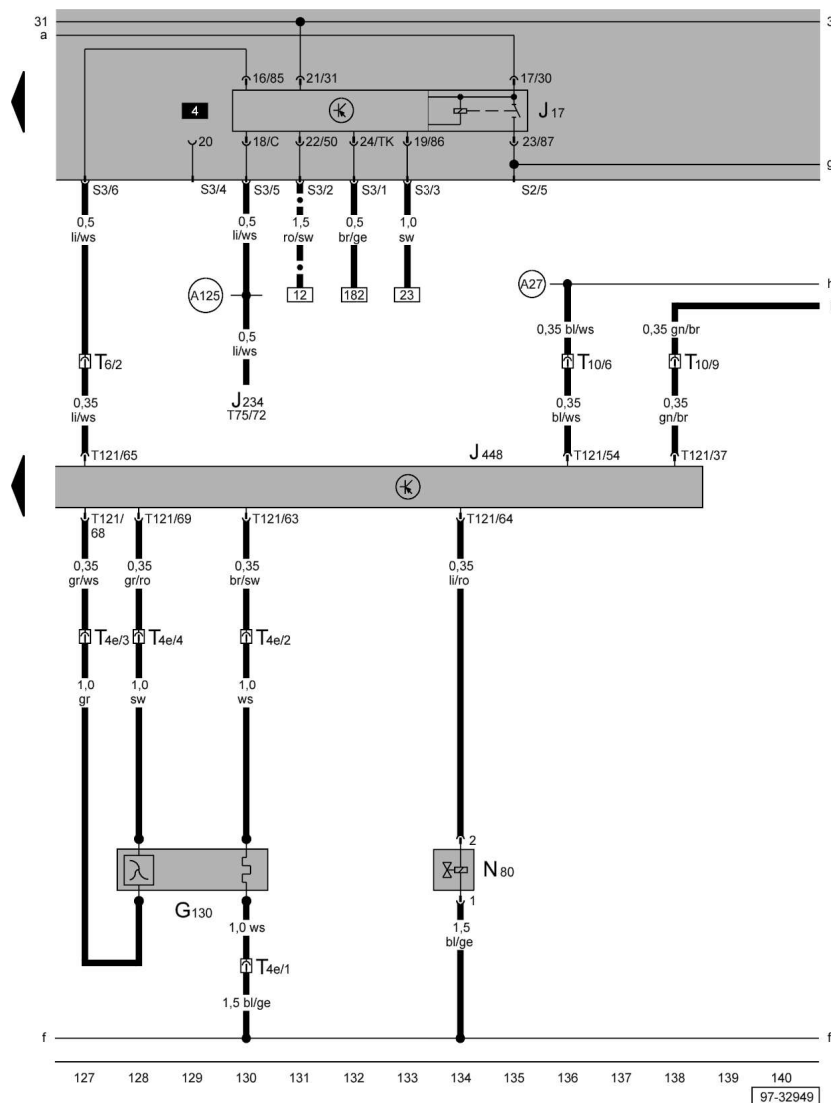
4MV injection system control unit, cruise control system switch, clutch pedal switch, cruise control system brake pedal switch, brake light switch

- E45 - Cruise control system switch**
- E227 - Cruise control system (CCS) SET button**
- F - Brake light switch
- F36 - Clutch pedal switch**
- F47 - Cruise control system brake pedal switch
- J448 - 4MV injection system control unit, in centre plenum chamber
- S13 - Fuse 13 in fuse holder
- T4q - 4-pin connector, (from May 2001)
- T10e - 10-pin connector, black, in connector protective housing, on left in plenum chamber
- T10s - 10-pin connector, next to steering column
- T10w - 10-pin connector, white, in connector protective housing, on left in plenum chamber
- T121 - 121-pin connector
- A18 - Connection (54), in dash panel wiring harness
- A20 - Connection (15a), in dash panel wiring harness
- ** - only models with GND

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Current Flow Diagram

No. 66 / 11



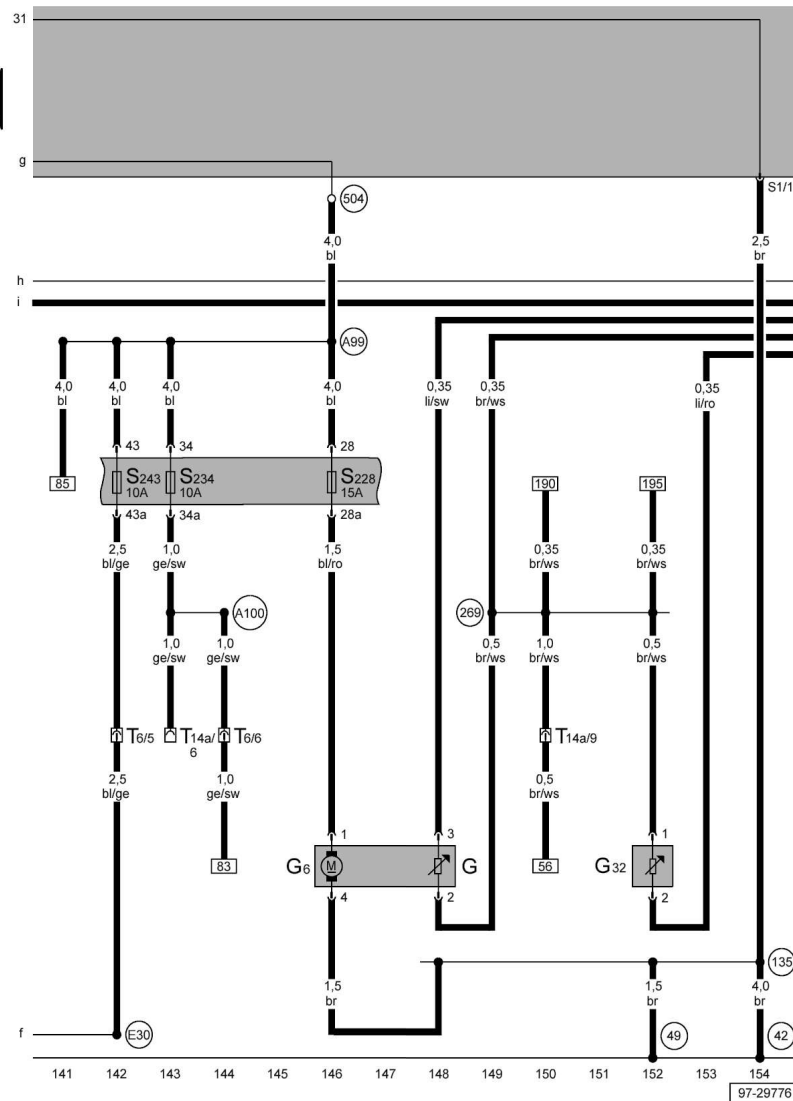
4MV injection system control unit, fuel pump relay, lambda probe after catalytic converter, activated charcoal filter system solenoid valve

- G130 - Lambda probe after catalytic converter
- J17 - Fuel pump relay
- J234 - Airbag control unit
- J448 - 4MV injection system control unit, in centre plenum chamber
- N80 - Activated charcoal filter system solenoid valve 1
- T4e - 4-pin connector, near catalytic converter
- T6 - 6-pin connector, brown, in connector protective housing, on left in plenum chamber
- T10 - 10-pin connector, orange, in connector protective housing, on left in plenum chamber
- T75 - 75-pin connector
- T121 - 121-pin connector
- A27 - Connection (speed signal), in dash panel wiring harness
- A125 - Connection (crash signal), in dash panel wiring harness
- - up to April 2001

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Current Flow Diagram

No. 66 / 12



Fuel pump, fuel gauge sender, coolant shortage indicator sender

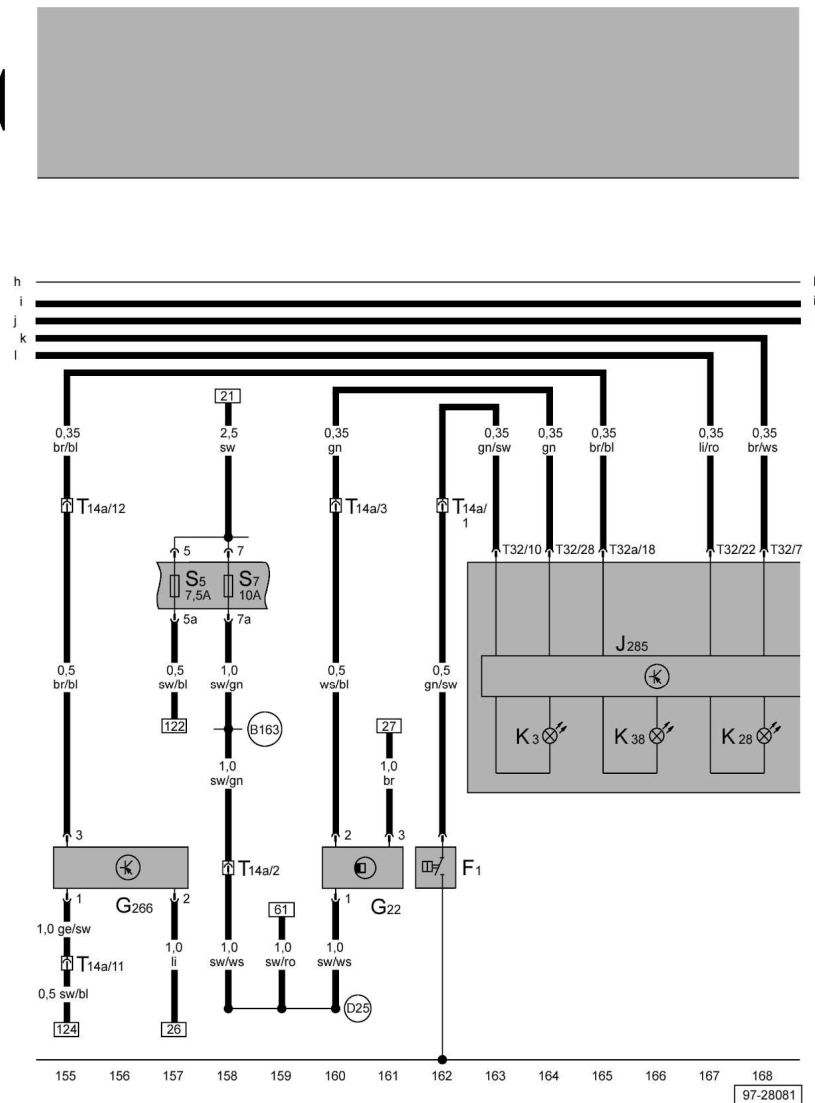
- G - Fuel gauge sender
- G6 - Fuel pump
- G32 - Coolant shortage indicator sender
- S228 - Fuse 28 in fuse holder
- S234 - Fuse 34 in fuse holder
- S243 - Fuse 43 in fuse holder
- T6 - 6-pin connector, brown, in connector protective housing, on left in plenum chamber
- T14a - 14-pin connector, near battery
- 42 - Earth point, next to steering column
- 49 - Earth point, next to steering column
- 135 - Earth connection 2, in dash panel wiring harness
- 269 - Earth connection (sender earth) 1, in dash panel wiring harness
- 504 - Screw connection (87F), on relay plate
- A99 - Connection 1 (87), in dash panel wiring harness
- A100 - Connection 2 (87), in dash panel wiring harness
- E30 - Connection (87a), in engine wiring harness

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Current Flow Diagram

No. 66 / 13



Dash panel insert, oil pressure warning, oil level/oil temperature sender, speedometer sender, coolant temperature/coolant shortage warning lamp

- F1 - Oil pressure switch
- G22 - Speedometer sender (Hall sender, on gearbox)
- G266 - Oil level and oil temperature sender
- J285 - Control unit with display in dash panel insert
- K3 - Oil pressure warning lamp
- K28 - Coolant temperature/coolant shortage warning lamp
- K38 - Oil level warning lamp*
- S5 - Fuse 5 in fuse holder
- S7 - Fuse 7 in fuse holder
- T14a - 14-pin connector, near battery
- T32 - 32-pin connector, blue
- T32a - 32-pin connector, green
- B163 - Positive connection 1 (15), in interior wiring harness
- D25 - Positive connection (15), in engine wiring harness
- * - only flexible service interval display

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 vi = purple
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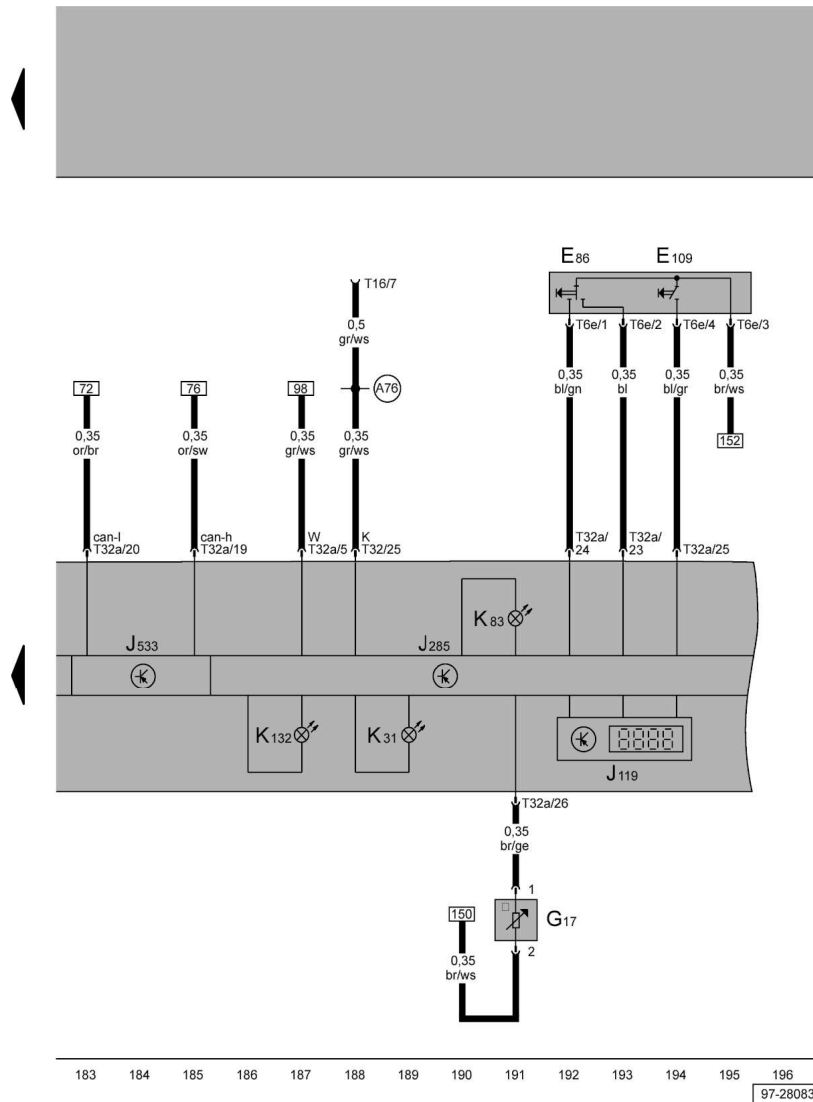
No. 66 / 14



- G1 - Fuel gauge
- G3 - Coolant temperature gauge
- G5 - Rev. counter
- G21 - Speedometer
- H3 - Warning buzzer
- J285 - Control unit with display in dash panel insert
- K2 - Alternator warning lamp
- K105 - Reserve fuel warning lamp
- T12a - 12-pin connector, Climatronic connection only
- T32 - 32-pin connector, blue
 - A13 - Connection (door contact switch), in dash panel wiring harness
 - A27 - Connection (speed signal), in dash panel wiring harness
- * - revolution signal engine control unit

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No. 66 / 15



Dash panel insert, electronic power control fault lamp, cruise control system warning lamp, multifunction display, ambient temperature indicator, exhaust emissions warning lamp, self-diagnosis connection

- E86 - Multifunction display call-up button
- E109 - Multifunction display memory switch
- G17 - Ambient temperature sensor
- J119 - Multifunction display
- J285 - Control unit with display in dash panel insert
- J533 - Data bus diagnostic interface, in dash panel insert
- K31 - Cruise control system warning lamp
- K83 - Exhaust emissions warning lamp
- K132 - Electric power control fault lamp
- T6e - 6-pin connector
- T16 - 16-pin connector, in centre dash panel, self-diagnosis connection
- T32 - 32-pin connector, blue
- T32a - 32-pin connector, green
- A76 - Connection (diagnosis wire K), in dash panel wiring harness